

## Network Video (IP) Server

### Description

The Network Video Server can be used where analog/network cameras are already in place. It is an integral part of the Fike Video Analytics early warning fire detection system acting as the video management system and communications conduit between third party ONVIF IP cameras or analog cameras outfitted with an ONVIF capable IP encoder and the Video Management Software (VMS). Contact Fike Video Analytics for camera compatibility.

The server is capable of continuously recording and digitally storing video images from up to 16 ONVIF cameras. The server's proprietary onboard analytics continuously monitors the video, frame-by-frame, pixel-by-pixel to detect anomalies characteristic of fire, smoke, and motion within the field of view of the camera. In the event of a fire or the production of smoke, the server will issue a warning signal by digitally streamed transmissions over IP to a VMS workstation. Server video processing algorithms include:

**Flaming Fires** - looks for a specific fire pattern consisting of a bright core of the flame and a flickering corona.

**Smoke Plumes** - identifies the anomalies that are caused by smoke and analyzes the progression over a period of time to identify a growing smoke plume.

**Ambient Smoke** - monitors the light diffusion from light sources and bright objects in the video images to detect the pattern consistent with the slow accumulation of smoke.

**Intrusion Detection** - can monitor multiple areas of the video image for the presence of moving objects at different times. This can be used to detect and record wanted or unwanted persons.

Multiple Network Servers can be installed and accessed over a single IP network by one VMS workstation for easy scalability. This provides the ability to build an enterprise-level surveillance system with a large number of cameras that can be monitored and configured from a single VMS workstation.



12 and 18 TB Server

### Features

- Handles up to 16 ONVIF cameras or encoder channels. *All ONVIF cameras used must have a 640 x 480 stream @15 fps available.*
- Provides early warning flame, smoke and motion detection similar to the Fike Video Analytics IP camera
- Multiple unit scalability over IP network
- Remote monitoring over LAN or Internet using the Fike Video Analytics Video Management Software (VMS)
- Remote playback of archived events
- Addresses security storage needs of an organization
- Requires a 1 GB network to support video transition
- Provides continuous video recording for each Fike Video Analytics IP camera marking the events reported (flame, smoke, and motion)
- Recorded video can be downloaded in .wmv or .axm format

### Ordering Information

Fike P/N	Description
28-141	Fike Video Analytics Server 12 TB - 4 channel ONVIF Compliant IP Video Streams Upgradeable to 8 channel w/license pack purchase
28-142	Fike Video Analytics Server 12 TB - 8 channel ONVIF Compliant IP Video Streams
28-143	Fike Video Analytics Server 18 TB - 12 channel ONVIF Compliant IP Video Streams, Upgradeable to 16 channel w/license pack purchase
28-144	Fike Video Analytics Server 18 TB - 16 channel ONVIF Compliant IP Cameras
28-059	Network Video Server 4 channel license pack

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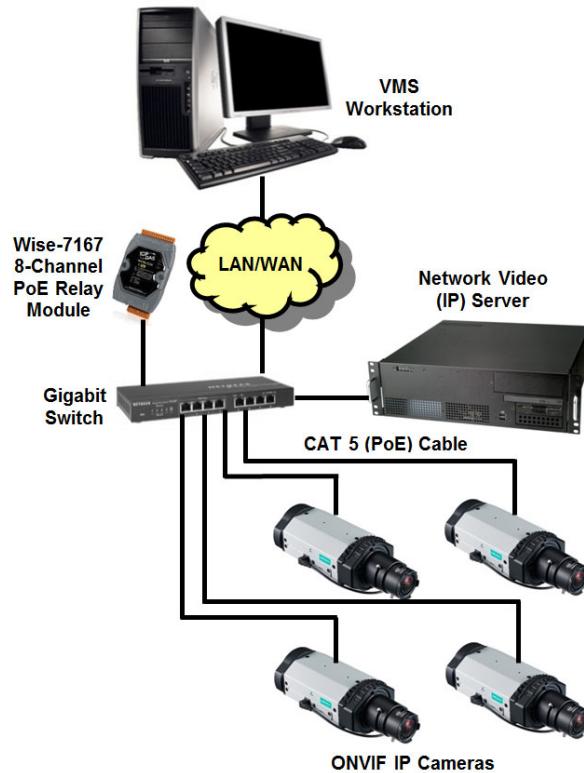
## Specifications

Chassis	2U, 17 inch, 7XPCI Slots, Slide Rail Kit Dimensions (WxDxH): 17" x 19" x 3.5" (432 x 483 x 89 mm)
Motherboard	X11SAE-M mATX C236 embedded chipset, 8x SATA Intel® HD Graphics P530 embedded 1xDVI-D, 1xDP (Display port), 1xHDMI
Processor	Intel® Xeon® Embedded Processor E3-1275 v6, 8M SmartCache, 3.60 GHz, 4 Cores, 8 Threads, 80W
Memory	(2) 4GB, DDR4-2133 ECC UnReg, 1.2 V
OS Drive	500GB, 7200 RPM, 128MB, 3.5" HDD
Storage Drives	(3) 3.5" HDD, 4TB, 7200RPM, 128MB (12TB FSM-IP NVR) (3) 3.5" HDD, 6TB, 7200RPM, 128MB (18TB FSM-IP NVR)
CD Drive	24x DVD-RW Black SATA
Input/Output	(2) USB ports on front of unit (1) RJ45 GB LAN ports on rear of unit (6) USB ports on rear of unit (1) DVI-D port on rear of unit (1) Display Port on rear of unit (1) Audio jack on rear of unit (1) HDMI port on rear of unit (1) USB Spice out on rear of unit
Power Supply	AC Input: 100-240V, 47-63Hz, 6-3A DC Output: 400W (max.)
Operating System	Windows® Server Standard 2019, 64-bit
Event Notification	Video Management Software over TCP/IP and Wise Relay
Recording Capacity	Varies based on the number of video channels and recording frame rate settings. Refer to FSM-IP NVR manual for additional information.
Environmental	Operating Temperature Range: 10-35°C (50-95°F) Non-operating Temperature Range (stored): -20-60°C (-4-140°F) Operating Humidity (RH): 10-80% Non-operating Humidity (RH): 10-95%

## System Architecture

In its basic configuration, the Fike Video Analytics system will consist of at least one ONVIF IP camera, network video server, and a Windows-based PC running the Fike Video Management Software (VMS), all connected to the same high-speed local area network (LAN). Remote VMS workstations can be located on a different network and will communicate normally as long as the NVR is accessible over a TCP connection.

Where Alarm annunciation is required, a Wise-7167 relay module can be connected to the system to provide dry-contact relay connections. These connections can be tied into an FM Approved Fire Alarm Control Panel (FACP) to signal system events.



## Network Requirements

For the server to function correctly and communicate with the ONVIF IP cameras, they must all share the same high-speed local area network (LAN).

If integrating the Fike Video Analytics components into an existing LAN, consult with your IT representative or system administrator to ensure that adequate capacity is available to handle the camera(s) bandwidth. Contact your Fike Video Analytics distributor for additional information regarding network requirements.

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